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Accession number & update

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Title

Application of on-the-fly **kinematic GPS** to **seismic** surveying.

Author(s)

[Lapucha-D](#); [Pottle-D](#); [Fellows-M](#).

Author affiliation

John E Chance & Assoc Inc, Lafayette, LA, USA.

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P Practical; X Experimental.

Abstract

The application of on-the-fly **kinematic GPS** (OTF-KGPS) to establishing a large scale **seismic** survey control is pioneered. The **seismic** points are staked out in the field using the real-time DGPS method and their precise coordinates are determined using OTF-KGPS. The paper briefly describes land **seismic** survey requirements. It then outlines the key concepts of the employed method of OTF-KGPS. Field surveys are described and sample results are given. (6 refs).

Descriptors

[geophysical-techniques](#); [radionavigation](#); [satellite-relay-systems](#); [seismology](#).

Keywords

large scale **seismic** survey control; on the fly **kinematic GPS**; **seismic** surveying; real time DGPS method; coordinates; land **seismic** survey requirements; OTF KGPS.

Classification codes

A9385 (Instrumentation and techniques for geophysical,

hydrospheric and lower atmosphere research).
A9130R (Explosion seismology).
B7710 (Geophysical techniques and equipment).
B6250G (Satellite relay systems).
B6330 (Radionavigation and direction finding).

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